



MSL-U-xxx-SU series



SINGLE LONGITUDINAL MODE LASER

All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

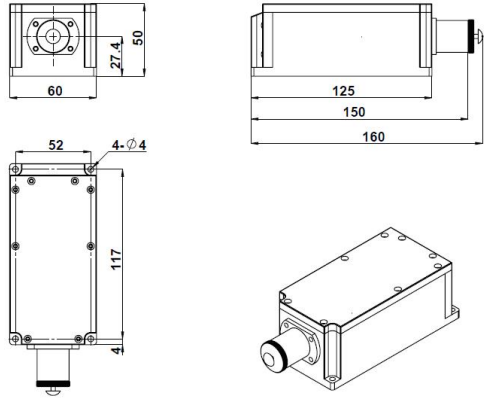
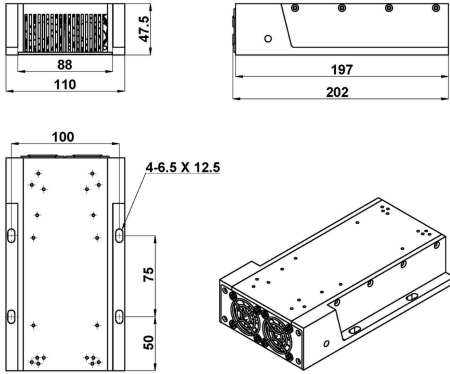
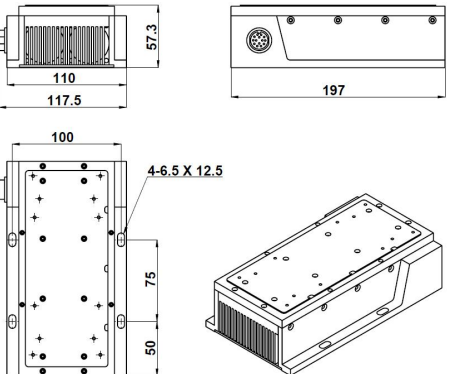
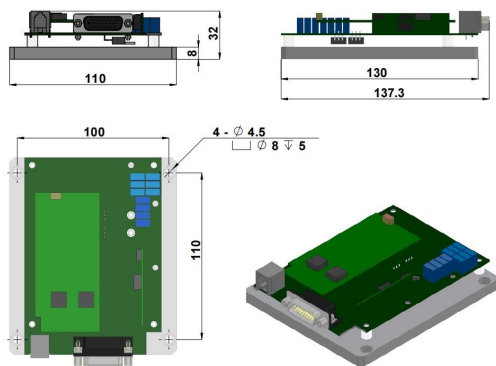
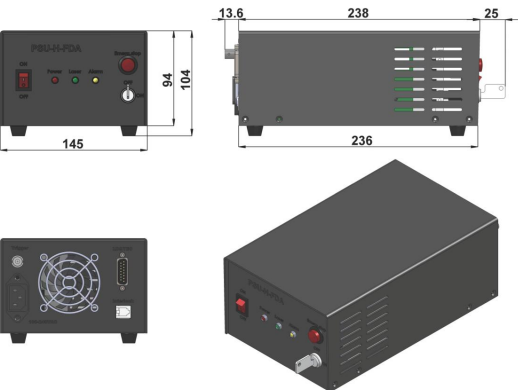
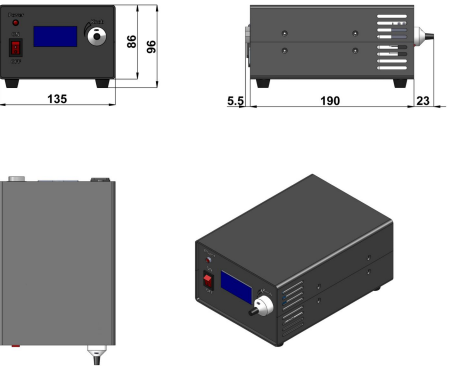


SPECIFICATIONS

Wavelength (nm) ¹		1112±1	1122±1	1313±1		1319±2	1342±1
Operating mode		CW					
Output power (mW) ²		1-200	1-250	1-200	200-500	1-100	1-500
Power stability (rms, over 4 hours)		<3%, <2%, <1%			<3%, <2%	<3%, <2%, <1%	
Transverse mode		TEM ₀₀					
Longitudinal mode		Single					
Spectral line width (MHz)		<1MHz					
Noise of amplitude (rms, 1Hz~20MHz)		<1%					
M ² factor		<1.2					
Beam diameter at the aperture (1/e ² , mm)		<1.0					
Beam divergence (mrad)		<1.5					
Polarization Ratio		/ >100:1, Horizontal (Vertical Optional)					
Warm-up time (minutes)		<5					
Pointing stability (urad)(over 2 hours after warm-up and ±3℃)		<50					
Pointing stability Over Temperature(urad/℃)		<8					
Frequency shift (MHz)(Over ±2℃ and 8hrs) (Optional)		<±200					
Frequency shift with Temp (MHz/℃) (Optional)		<200					
Coherent length (m)		>50					
Beam height from base plate (mm)		27.4					
Laser head consumption(W)		15 (typical), <25 (40℃)					
Max. Laser Head Base plate Temp (℃)		50					
Operating Temperature (℃)		10-35					
Power supply	100-240VAC	PSU-H-FDA					
	DC 12V	PSU-SR-OEM					
Expected lifetime (hours)		>10000					

Note: The laser head needs to be used on a heat sink with good heat dissipation.



LASER HEAD	HEATSINK(OPTIONAL TC-02-FS)	TC-01 HEAT SINK
 160(L)×60(W)×50(H) mm³, 0.9kg	 202(L)×110(W)×47.5(H) mm³, 1.25 kg	 197(L)×117.5(W)×57.3(H) mm³, 1.6 kg
POWER SUPPLY (PSU-SR-OEM) ³	POWER SUPPLY(PSU-H-FDA) ³	TC-01 HEAT SINK POWER SUPPLY
 137.3(L)×110(W)×32(H) mm³, 0.5 kg	 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg	 218.5(L)×135(W)×96(H) mm³, 2.6 kg

1 Other wavelengths can be customized, please consult.

2 Any power level can be selected in this range.

3 Fixed output power.